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Notice of Allowability

Application No.

10/667,307

Examiner

Quang T Van

Applicant(s)

KITANO ET AL.

Art Unit

3742

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed on 2/25/2005.
2. ☒ The allowed claim(s) is/are 1,2,15,16 and 29-39.
3. ☒ The drawings filed on 25 February 2005 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____



Quang T Van
Primary Examiner
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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Non-elected claims 3-14, 17-28 have been cancelled.

NOTE: With regard to claims 3-14 and 17-28, the term "for the thermal processing roller according to claim ...", recited in line 1, is considered an intended use. Therefore, claims 3-8, 17-22 are considered independent claims

REASON FOR ALLOWANCE

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Eriksen et al (US 5,590,704) discloses a method of heating a jacketed working surface of rotating roller and a rotary roller. Kubik (US 6,554,755) discloses a roller device.

3. The following is an examiner's statement of reasons for allowance: allowance of claims 1-2, 15-16, and 29-39 is indicated because the prior art of record does not show or suggest a thermal roller includes a heat transfer medium flowing path therein and a heat member to be processed abutting against a surface of the roller or absorbs heat therefrom by heat transfer fluid flowing through the heat transfer medium flowing path, wherein a seal chamber extends in a longitudinal direction of the roller and in which a

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heat transfer medium having a vapor phase and liquid phase is sealed, the chamber being formed within a thick portion of the roller as recited in claims 1-2, 29-31; a thermal roller includes a heat transfer medium flowing path therein and a heat member to be processed abutting against a surface of the roller or absorbs heat therefrom by heat transfer fluid flowing through the heat transfer medium flowing path, wherein a plurality of sealed chambers each extend in a longitudinal direction of the roller and in each of which a heat transfer medium having a vapor phase and a liquid phase is sealed, each chamber being formed within a thick portion of the roller along an outer peripheral surface of the roller as recited in claims 15-16, 32-34; and a thermal roller having a heat transfer medium flowing path for flowing a heat transfer fluid flowed from outside of a roll shell and a seal chamber formed in the roller shell, wherein a heat transfer medium having a vapor phase and a liquid phase is sealed in the sealed chamber as recited in claims 35-39.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quang T Van whose telephone number is 571-272-4789. The examiner can normally be reached on 8:00Am 7:00Pm M-Th.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on 571-272-4777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



QV

April 19, 2005



Quang T Van
Primary Examiner
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